



US009271597B2

(12) **United States Patent**
Rivera

(10) **Patent No.:** **US 9,271,597 B2**
(45) **Date of Patent:** ***Mar. 1, 2016**

(54) **SINGLE SERVING REUSABLE BREWING MATERIAL HOLDER**

USPC 99/279, 485, 287, 289 R, 295, 302 R,
99/306, 323; 426/77-80, 112, 115, 132,
426/135, 394

(75) Inventor: **Adrian Rivera**, Whittier, CA (US)

See application file for complete search history.

(73) Assignee: **ARM Enterprises**, Santa Fe Springs, CA (US)

(56) **References Cited**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

U.S. PATENT DOCUMENTS

2,433,815	A	12/1947	Laforge	
3,022,411	A *	2/1962	Soper et al.	219/441
3,115,822	A	12/1963	Totten	
3,120,170	A	2/1964	Garte	
3,136,241	A	6/1964	Price	
3,199,682	A	8/1965	Scholtz	
3,224,360	A *	12/1965	Wickenberg et al.	99/292

(Continued)

(21) Appl. No.: **13/436,667**

(22) Filed: **Mar. 30, 2012**

FOREIGN PATENT DOCUMENTS

(65) **Prior Publication Data**

US 2012/0207895 A1 Aug. 16, 2012

WO WO 2005/092160 A1 10/2005

Primary Examiner — Eric Stapleton

(74) *Attorney, Agent, or Firm* — IP Strategies

Related U.S. Application Data

(63) Continuation-in-part of application No. 12/620,584, filed on Nov. 17, 2009, now Pat. No. 8,291,812, and a continuation-in-part of application No. 12/610,181, filed on Oct. 30, 2009, and a continuation-in-part of application No. 11/777,831, filed on Jul. 13, 2007, now abandoned.

(57)

ABSTRACT

A single serving beverage filter cartridge is formed by placing a single serving portion of brewing material into a reusable coffee holder having a lid and a base. The reusable coffee holder includes a recessed annular region at the bottom of a base of the holder and is insertable into a cartridge housing of a single serving coffee maker having an offset needle reaching up vertically from the base of the housing, the recessed annular region avoiding the offset bottom needle. The coffee holder defines a frustoconical exterior and includes mesh filtering material for retaining brewing material inside the coffee holder. The mesh material may be a metal mesh or plastic mesh. The reusable coffee holder is configured for use in single serving coffee makers having the offset bottom needle and designed for single use cartridges.

(51) **Int. Cl.**

A23G 1/10 (2006.01)

A47J 31/00 (2006.01)

A47J 31/44 (2006.01)

A47J 31/06 (2006.01)

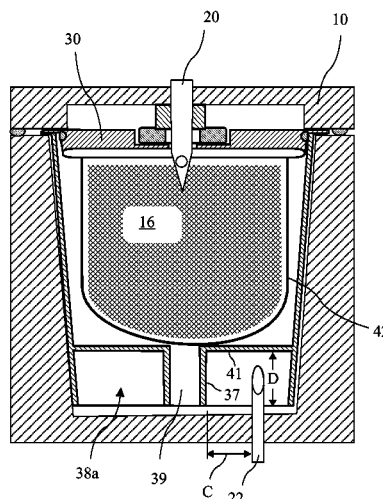
(52) **U.S. Cl.**

CPC **A47J 31/0689** (2013.01)

(58) **Field of Classification Search**

CPC . A47J 31/407; A47J 31/4403; A47J 31/4407;
A47J 31/3628; A47J 31/368; B65D 85/8043;
B65D 85/8046; A23F 5/262; A23F 3/18;
A23F 3/14; A23F 5/18; A23F 5/243

36 Claims, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,316,388	A *	4/1967	Wickenberg et al.	219/442	6,065,609	A *	5/2000	Lake	210/474
3,336,857	A *	8/1967	Knodt et al.	99/296	D431,423	S *	10/2000	Ohm et al.	D7/620
3,384,004	A *	5/1968	Perlman et al.		6,136,352	A *	10/2000	Silverstein et al.	
3,403,617	A *	10/1968	Lampe	99/295	6,189,438	B1 *	2/2001	Bielfeldt et al.	99/321
3,405,630	A *	10/1968	Weber, III	99/282	RE37,173	E *	5/2001	Jefferson et al.	99/299
3,583,308	A *	6/1971	Williams		6,227,102	B1 *	5/2001	Sham et al.	99/286
3,592,126	A *	7/1971	Dombrowik	99/312	6,231,909	B1 *	5/2001	Levinson	426/433
3,607,297	A *	9/1971	Fasano		6,250,209	B1 *	6/2001	Pope	99/323
3,695,168	A *	10/1972	Van Brunt	99/306	6,253,662	B1 *	7/2001	Zelson	99/279
3,757,670	A *	9/1973	Laama et al.	99/302 R	6,263,781	B1 *	7/2001	Calagui	99/323
3,844,206	A *	10/1974	Weber	99/282	D454,433	S	3/2002	Peter	
3,948,157	A *	4/1976	Layre	99/289 R	D454,434	S	3/2002	McDaniel et al.	
3,958,502	A *	5/1976	Vitous	99/300	6,440,256	B1	8/2002	Gordon et al.	
4,052,318	A *	10/1977	Krebs	210/337	D474,110	S	5/2003	Sweeney	
4,086,848	A *	5/1978	Hahn	99/323	D474,111	S	5/2003	Lazaris	
4,143,590	A *	3/1979	Kasakoff	99/296	6,589,577	B2	7/2003	Lazaris et al.	
4,164,644	A *	8/1979	Remsnyder et al.	219/433	6,606,938	B2	8/2003	Taylor	
4,221,670	A *	9/1980	Ziemek	210/474	6,607,762	B2	8/2003	Lazaris et al.	
4,253,385	A *	3/1981	Illy		6,645,537	B2	11/2003	Sweeney et al.	
4,286,515	A *	9/1981	Baumann et al.		6,655,260	B2 *	12/2003	Lazaris et al.	99/295
4,510,853	A *	4/1985	Takagi	99/286	6,658,989	B2	12/2003	Sweeney et al.	
4,550,024	A *	10/1985	le Granse	426/77	6,662,955	B1 *	12/2003	Lassota	210/482
4,603,621	A *	8/1986	Roberts	99/307	6,708,600	B2 *	3/2004	Winkler et al.	99/295
4,703,687	A *	11/1987	Wei	99/286	6,727,484	B2 *	4/2004	Policappelli	219/689
4,704,954	A *	11/1987	Mollenhoff	99/279	6,740,345	B2 *	5/2004	Cai	426/77
4,706,555	A *	11/1987	Nakamura et al.	99/283	6,758,130	B2 *	7/2004	Sargent et al.	99/295
4,721,835	A *	1/1988	Welker	219/689	6,786,136	B2 *	9/2004	Cirigliano et al.	99/323
4,739,697	A *	4/1988	Roberts	99/295	6,832,542	B2	12/2004	Hu et al.	
4,832,845	A *	5/1989	Hendretti	210/470	6,843,165	B2	1/2005	Stoner et al.	
4,833,979	A *	5/1989	Garulli et al.	99/287	D502,362	S	3/2005	Lazaris et al.	
4,858,523	A *	8/1989	Helbling	99/280	6,904,840	B1	6/2005	Pfeifer et al.	
4,865,737	A *	9/1989	McMichael	210/477	6,948,420	B2	9/2005	Kirschner et al.	
4,967,648	A *	11/1990	Helbling	99/280	6,968,775	B2 *	11/2005	Burrows et al.	99/303
4,986,172	A *	1/1991	Hunnicut, Jr.	99/306	7,047,870	B2	5/2006	Gantt et al.	
4,998,463	A *	3/1991	Precht et al.	99/300	7,081,263	B2	7/2006	Albrecht	
5,000,082	A *	3/1991	Lassota	99/304	7,131,369	B2	11/2006	Gantt et al.	
5,012,059	A *	4/1991	Boatman	219/689	7,320,274	B2 *	1/2008	Castellani	99/295
5,028,328	A *	7/1991	Long	210/477	7,730,829	B2 *	6/2010	Hammad	99/295
5,046,409	A *	9/1991	Henn	99/307	7,946,217	B2 *	5/2011	Favre et al.	99/295
5,072,660	A *	12/1991	Helbling	99/280	8,047,127	B2	11/2011	Lin	
5,123,335	A *	6/1992	Aselu		8,087,347	B2 *	1/2012	Halliday et al.	99/295
5,190,653	A *	3/1993	Herrick et al.	210/477	2001/0043954	A1 *	11/2001	Sweet	424/725
5,233,914	A *	8/1993	English		2002/0005367	A1 *	1/2002	Zelson	206/449
5,242,702	A *	9/1993	Fond	426/433	2002/0023543	A1 *	2/2002	Schmed	99/295
5,265,517	A *	11/1993	Gilbert	99/280	2002/0035929	A1 *	3/2002	Kanba et al.	99/279
5,287,797	A *	2/1994	Grykiewicz et al.	99/295	2002/0048621	A1 *	4/2002	Boyd et al.	426/77
5,325,765	A *	7/1994	Sylvan et al.	99/295	2002/0059870	A1 *	5/2002	Walters Jr. et al.	99/298
5,335,589	A *	8/1994	Yerves et al.		2002/0078831	A1 *	6/2002	Cai	99/295
5,343,799	A *	9/1994	Fond	99/295	2002/0144604	A1 *	10/2002	Winkler et al.	99/302 R
5,347,916	A *	9/1994	Fond et al.	99/295	2002/0148356	A1 *	10/2002	Lazaris et al.	99/295
5,363,745	A *	11/1994	Lin	99/306	2003/0006185	A1 *	1/2003	Hepler	210/464
5,398,596	A *	3/1995	Fond	99/295	2003/0041739	A1 *	3/2003	Cai	99/287
5,401,328	A *	3/1995	Schmitz	134/58 R	2003/0167928	A1 *	9/2003	Mulle et al.	99/279
5,403,605	A *	4/1995	Smith et al.	426/433	2003/0200872	A1 *	10/2003	Lin	99/293
5,406,882	A *	4/1995	Shaanan	99/287	2003/0213370	A1 *	11/2003	Hammad et al.	99/300
5,463,932	A *	11/1995	Olson	99/280	2003/0222089	A1 *	12/2003	Hale	220/912
5,490,448	A *	2/1996	Weller et al.	99/305	2003/0226449	A1 *	12/2003	Carasso et al.	99/279
5,526,733	A *	6/1996	Klawuhn et al.		2004/0020368	A1 *	2/2004	Cai	99/279
5,531,152	A *	7/1996	Gardosi	99/289 R	2004/0020922	A1 *	2/2004	Alves	219/679
5,562,941	A *	10/1996	Levy	426/433	2004/0118290	A1 *	6/2004	Cai	99/275
5,582,730	A *	12/1996	Hugentobler		2004/0182247	A1 *	9/2004	Guerrero	99/275
5,582,731	A *	12/1996	Gianfranco	210/477	2004/0244600	A1 *	12/2004	Lalanne-Eygun	99/279
5,635,233	A *	6/1997	Levinson	426/433	2005/0051478	A1 *	3/2005	Karanikos et al.	210/469
5,636,563	A *	6/1997	Oppermann et al.	99/285	2005/0160918	A1 *	7/2005	Winstanley et al.	99/279
5,669,287	A *	9/1997	Jefferson et al.	99/299	2005/0172819	A1 *	8/2005	Chen et al.	99/279
5,676,041	A *	10/1997	Glucksman et al.		2005/0236323	A1 *	10/2005	Oliver et al.	210/464
5,775,206	A *	7/1998	St-Gelais	99/323	2005/0257695	A1 *	11/2005	Dobranski et al.	99/485
5,829,340	A *	11/1998	Yang		2005/0266122	A1 *	12/2005	Franceschi	426/77
5,840,189	A *	11/1998	Sylvan et al.	210/474	2005/0284303	A1 *	12/2005	Zell et al.	99/279
5,865,094	A *	2/1999	Kealy	99/291	2006/0019000	A1 *	1/2006	Zanetti	426/112
5,870,943	A *	2/1999	Levi et al.		2006/0107841	A1 *	5/2006	Schifferle	99/279
5,887,510	A *	3/1999	Porter	99/287	2006/0159815	A1	7/2006	Crook et al.	
5,897,899	A *	4/1999	Fond	426/112	2006/0174769	A1	8/2006	Favre et al.	
5,924,563	A *	7/1999	Salysers	206/223	2006/0196364	A1	9/2006	Kirschner	
5,932,260	A *	8/1999	Soughan	426/78	2006/0254428	A1 *	11/2006	Glucksman et al.	99/302 P
					2007/0175334	A1 *	8/2007	Halliday et al.	99/279
					2007/0277677	A1 *	12/2007	Roberg	99/323
					2009/0229471	A1	9/2009	Lun et al.	
					2010/0083843	A1 *	4/2010	Denisart et al.	99/295

(56)

References Cited

U.S. PATENT DOCUMENTS

2010/0288131	A1 *	11/2010	Kilber et al.	99/295	2012/0276264	A1 *	11/2012	Rivera	426/433
2010/0303964	A1 *	12/2010	Beaulieu et al.	426/77	2012/0285330	A1	11/2012	Demiglio et al.	
2011/0209623	A1	9/2011	Leung et al.		2012/0285334	A1	11/2012	Demiglio et al.	
2011/0274802	A1 *	11/2011	Rivera	426/431	2013/0017303	A1 *	1/2013	Vu	426/433
2012/0207895	A1 *	8/2012	Rivera	426/433	2013/0025466	A1 *	1/2013	Fu et al.	99/295
2012/0207896	A1 *	8/2012	Rivera	426/433	2013/0156897	A1 *	6/2013	Goldstein	426/115
					2014/0245895	A1	9/2014	Demiglio et al.	
					2014/0287105	A1 *	9/2014	Husband et al.	426/115

* cited by examiner

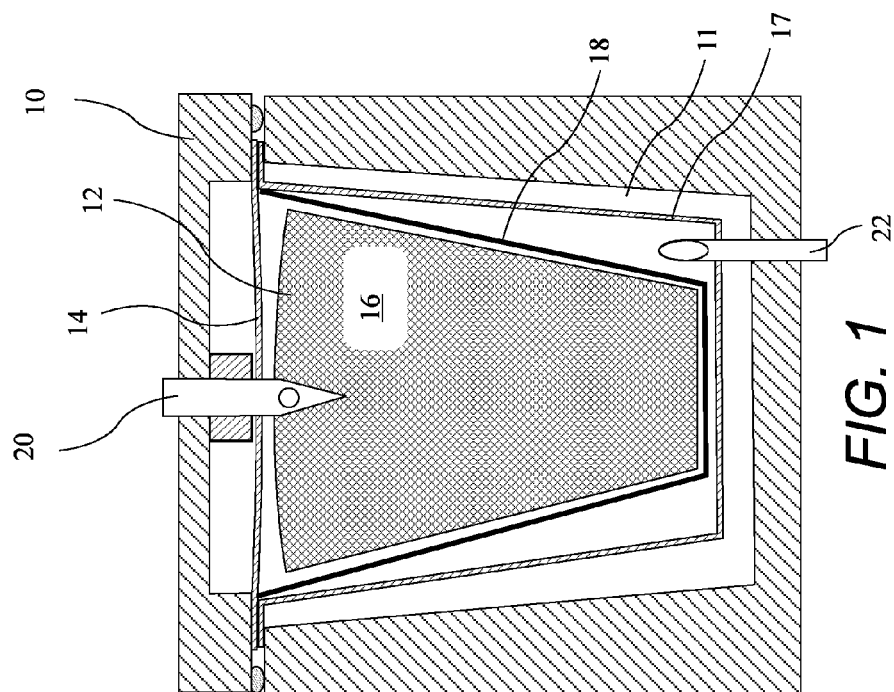
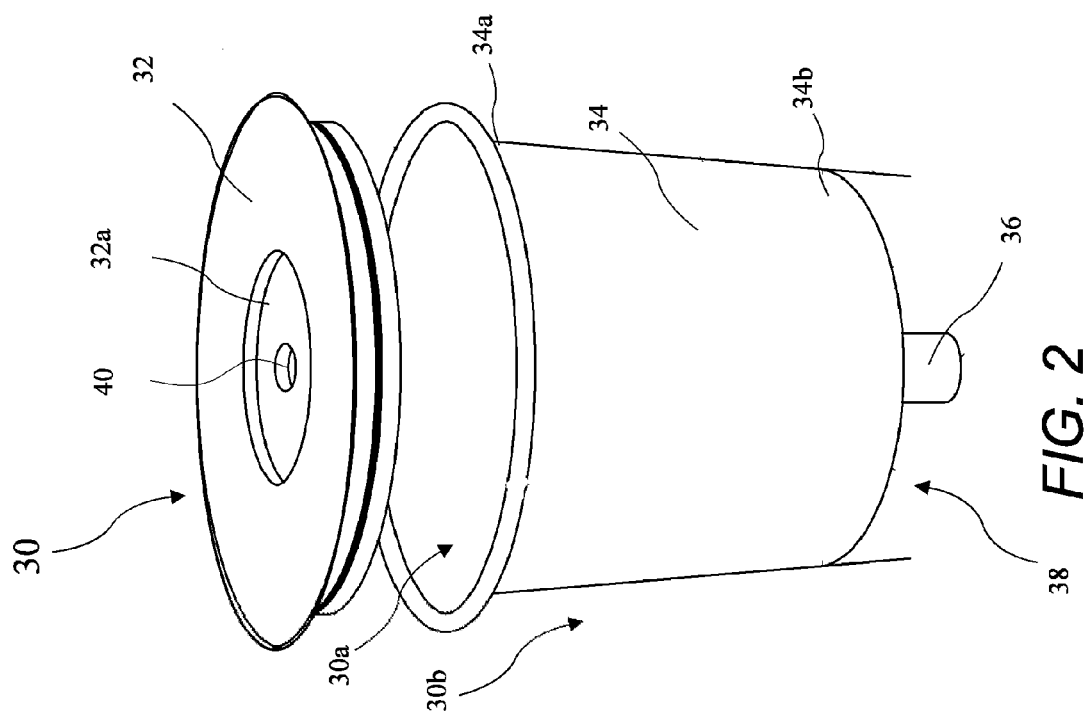


FIG. 1
(prior art)

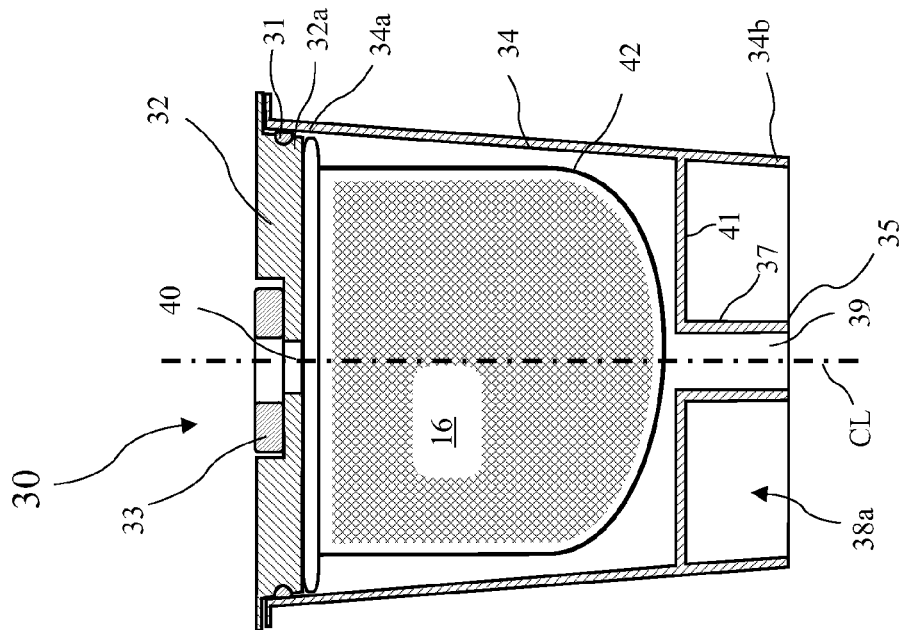


FIG. 3

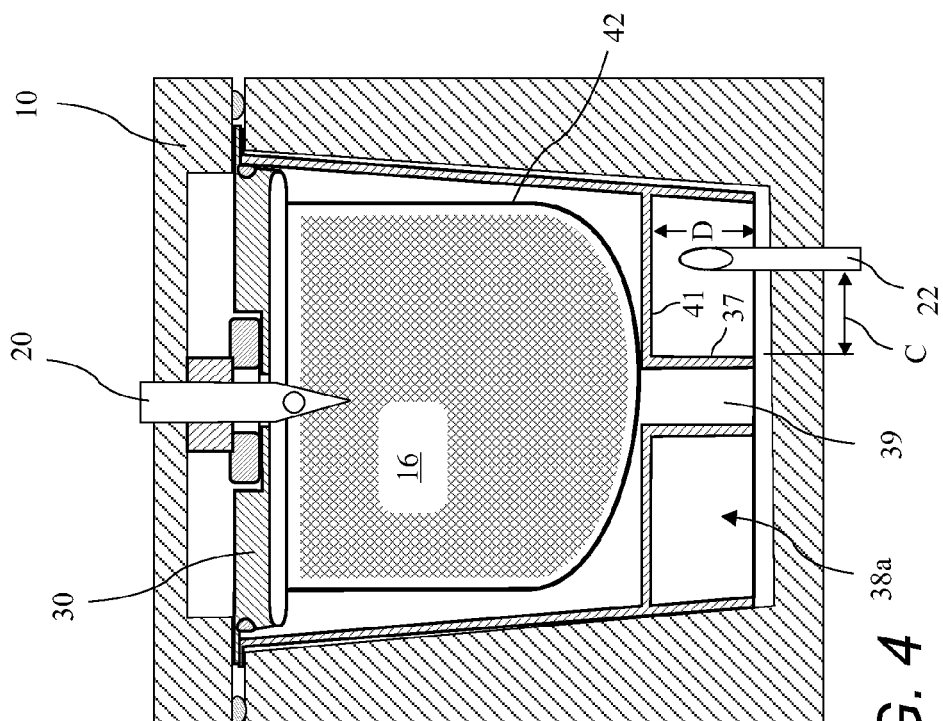


FIG. 4

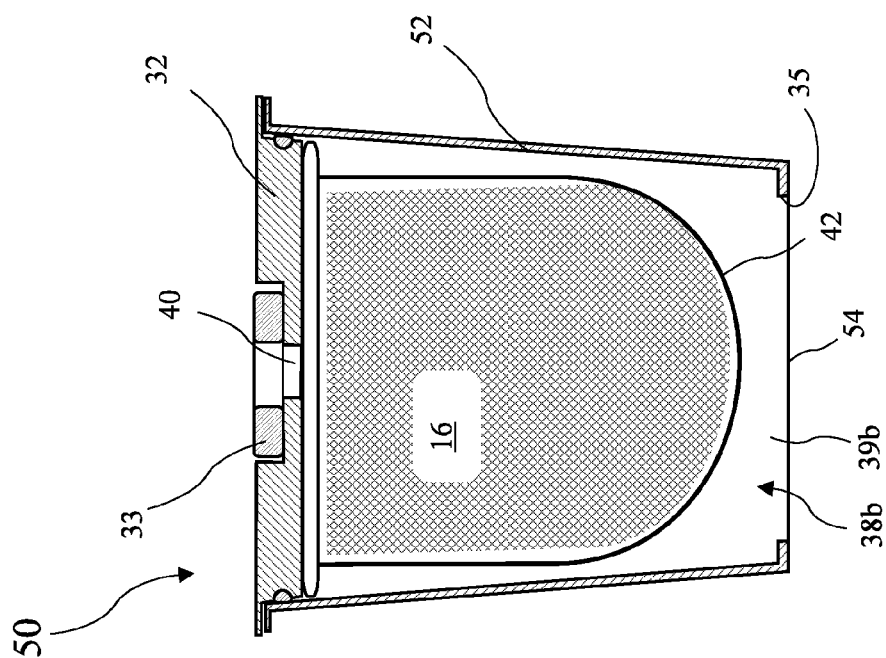


FIG. 5

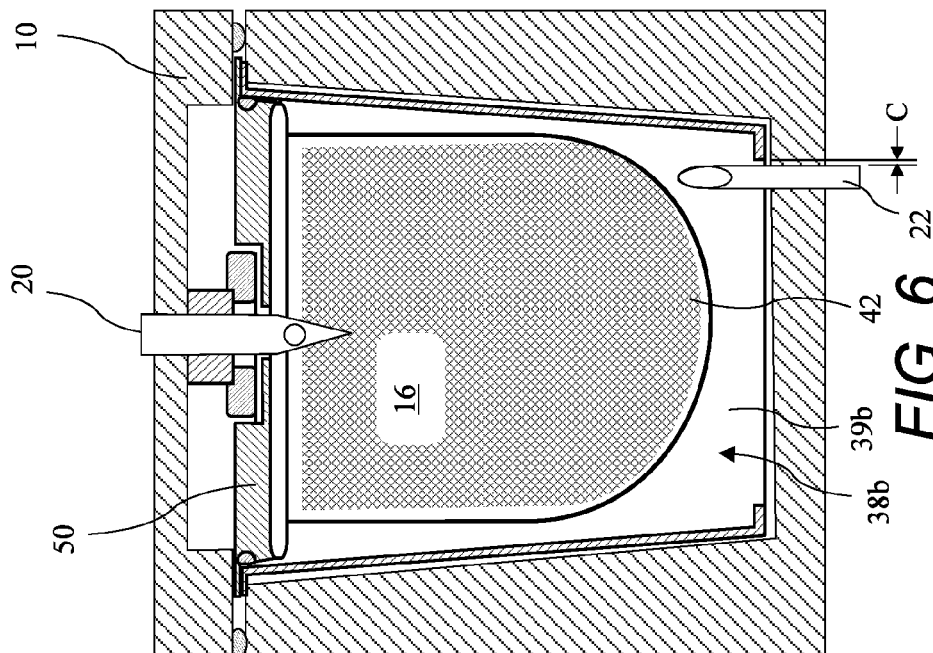


FIG. 6

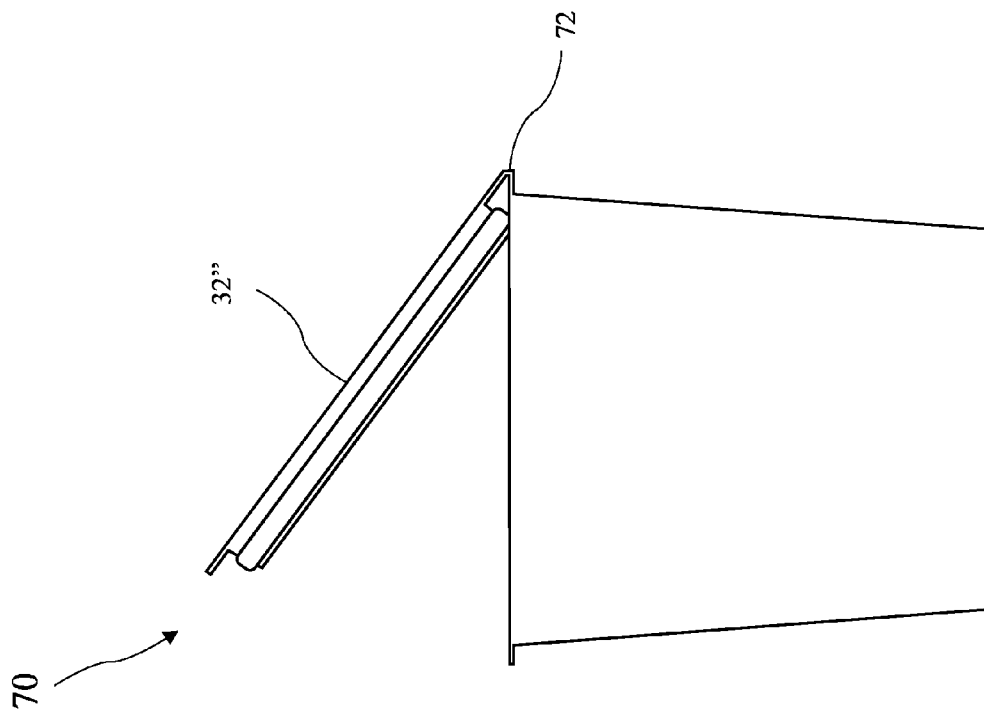


FIG. 7

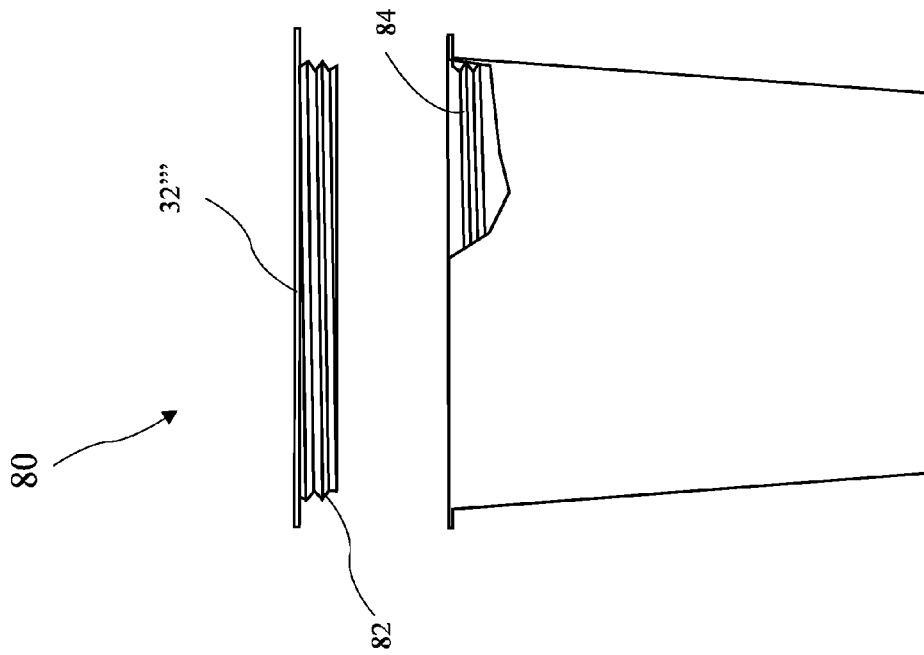


FIG. 8

1

SINGLE SERVING REUSABLE BREWING MATERIAL HOLDER

The present application is a Continuation In Part of U.S. patent application Ser. No. 11/777,831 filed Jul. 13, 2007, a Continuation In Part of U.S. patent application Ser. No. 12/610,181 filed Oct. 30, 2009, and a Continuation In Part of U.S. patent application Ser. No. 12/620,584 filed Nov. 17, 2009, which applications are incorporated in their entirety herein by reference.

BACKGROUND OF THE INVENTION

The present invention relates to single serving coffee makers and in particular to a single serving reusable brewing material holder including a reusable mesh material to retain the brewing material in the holder.

Coffee is prepared in a coffee maker by measuring an amount of ground coffee into a coffee filter, closing a lid over the ground coffee, and providing a stream of hot water through the ground coffee. In recent years, single serving coffee makers have become very popular, for example, KEURIG® coffee makers. U.S. Pat. Nos. 5,325,765 and 6,708,600 disclose a housing and cooperating filter cartridge for use in a KEURIG® coffee maker. While the housing and cartridge of the '765 patent are very popular, the cost of single use cartridges far exceeds the cost of the brewing material contained in the cartridges. The '765 and '600 patents are herein incorporated by reference in its entirety.

BRIEF SUMMARY OF THE INVENTION

The present invention addresses the above and other needs by providing a single serving beverage filter cartridge which is formed by placing a single serving portion of brewing material into a reusable coffee holder having a lid and a base. The reusable coffee holder includes a recessed annular region at the bottom of a base of the holder and is insertable into a cartridge housing of a single serving coffee maker having an offset needle reaching up vertically from the base of the housing, the recessed annular region avoiding the offset bottom needle. The coffee holder defines a frustoconical exterior and includes mesh filtering material for retaining brewing material inside the coffee holder. The mesh material may be a metal mesh or plastic mesh. The reusable coffee holder is configured for use in single serving coffee makers having the offset bottom needle and designed for single use cartridges.

In accordance with one aspect of the invention, there is provided a coffee holder including a metal filter mesh material interposed between an interior and exterior of the holder to retain brewing material in the holder. The filter mesh material may be a metal or plastic mesh.

In accordance with another aspect of the invention, there is provided a coffee holder having a bottom with an annular recess. The holder fits into existing single serving coffee makers having an offset bottom needle and the annular recess provides clearance for the offset bottom needle.

In accordance with still another aspect of the invention, there is provided a coffee holder having an annular recessed region surrounding a stem. The stem extends downward from the bottom of the base. The holder fits into existing single serving coffee makers having an offset bottom needle and the annular recess around the stem provides clearance for the offset bottom needle.

In accordance with yet another aspect of the invention, there is provided a method for using a reusable coffee holder in a single serving coffee maker having an offset bottom

2

needle. The method includes opening a lid of the reusable coffee holder, placing a single serving portion of brewing material into a holder base, closing the lid of the coffee holder, opening a coffee cartridge housing of the single serving coffee maker, placing the coffee holder into the coffee cartridge housing causing an offset bottom needle to reside in the annular recessed area in the bottom of the holder base, closing the coffee cartridge housing, and brewing a brewed beverage. The reusable coffee holder includes a holder lid, a frustoconical shaped coffee holder base, and a metal mesh filter attached to the coffee holder base and interposed between the interior and the exterior of the holder base and retaining brewing material deposited into the holder base through the holder top, and a holder lid closeable over the top of the holder base. The holder lid includes a center mating portion of the holder lid including a downward concave cavity for receiving a nozzle of a coffee maker and sealing against the coffee maker to prevent the escape of heated liquid during brewing. The a frustoconical shaped coffee holder base includes a smaller diameter bottom, a larger diameter top, an interior, an exterior, and a concave up, annular recessed area in the bottom of the holder base.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

The above and other aspects, features and advantages of the present invention will be more apparent from the following more particular description thereof, presented in conjunction with the following drawings wherein:

FIG. 1 is a prior art single serving housing and filter cartridge.

FIG. 2 is a perspective view of a first single serving coffee holder according to the present invention.

FIG. 3 is a cross-sectional side view of the first single serving coffee holder according to the present invention.

FIG. 4 is a cross-sectional side view of the first single serving coffee holder according to the present invention in the prior art single serving housing.

FIG. 5 is a cross-sectional side view of a second single serving coffee holder according to the present invention.

FIG. 6 is a cross-sectional side view of the second single serving coffee holder according to the present invention in the prior art single serving housing.

Corresponding reference characters indicate corresponding components throughout the several views of the drawings.

DETAILED DESCRIPTION OF THE INVENTION

The following description is of the best mode presently contemplated for carrying out the invention. This description is not to be taken in a limiting sense, but is made merely for the purpose of describing one or more preferred embodiments of the invention. The scope of the invention should be determined with reference to the claims.

A prior art single serving housing 10 of a coffee maker and single use filter cartridge 12 residing in a brewing chamber 11 of the coffee maker, disclosed in U.S. Pat. Nos. 5,325,765 and 6,708,600 (incorporated by reference above) are shown in FIG. 1. The filter cartridge 12 includes a pierceable shell 14 and contains brewing material 16. An upper needle 20 penetrates the top of the shell 14 to inject heated water into the cartridge 12 and an offset bottom needle 22 penetrates the base 12 of the shell 14 and receives the brewed drink produced in the cartridge 12 and carries the brewed drink from the brewing chamber when the housing 10 is closed on the cartridge 12. A single use disposable filter cartridge sold

3

under the trademark K-CUP® has a top edge with a diameter of about 1.8 inches, a height of about 1¾ inches, and a frustoconical shape with a base smaller than the top edge. The base of the K-CUP cartridge is generally being about 1.45 inches in diameter.

A perspective view of a first single serving coffee holder 30 according to the present invention is shown in FIG. 2. The coffee holder 30 includes a lid 32 and a base 34. The base 34 includes a larger diameter top 34a and a smaller diameter bottom 34b and is generally frustoconical in shape. A passage 40 in the lid 32 is provided for the needle 20. The bottom 34b of the base 34 includes a recess (for example, a mouth) 38 formed prior to insertion of the reusable coffee holder into the single serving coffee maker surrounding a stem 36 generally centered on the bottom 34b of the base 34. The stem 36 extends downward from the bottom of the base 34. The coffee holder 30 defines an interior region 30a and an exterior region 30b. Lid 32 may be removably attachable to the base 34, or hingedly attached to the base 34. The removable lid 32 may be an interference fit to the base 34, or the lid 32 and base 34 may have cooperating threads to threadably attach, or the lid 32 may be otherwise attached to the base 34.

A cross-sectional side view of the first coffee holder 30 is shown in FIG. 3 and a second cross-sectional view of the first coffee holder 30 in the prior art single serving housing 10 is shown in FIG. 4. A concave down mesh filter 42 holds the brewing material 16, and retains the brewing material 16 in the interior region 30a of the coffee holder 30 separating the brewing material 16 from the exterior region 30b of the coffee holder 30 (see FIG. 2). The needle 20 reaches through the passage 40 in the lid 32 to inject hot liquid into the brewing material 16 to make a brewed drink. The recess 38 comprises an annular recess 38a providing an unobstructed vertical distance D between the holder base bottom and a lower surface of a closed ceiling 41 separating the bottom needle 22 from the interior region 30a (see FIG. 2) of the holder base and lateral clearance C between the offset bottom needle 22 and a vertical interior wall 37 bordering the recess 38a of the holder base 34, preventing contact between the offset bottom needle 22 and any part of the holder base 34. A compliant ring 33 may be included to seal against the coffee maker. A passage 39 in the holder base bottom 34 allows brewed beverage to escape from the coffee holder 30 into the brewing chamber 11 of the coffee maker while avoiding flowing through the offset bottom needle 22. The distance D is preferably between one and twenty mm and more preferably about ten mm. The lid 32 includes a ring 32a reaching downward into the holder base 34 and a O-ring 31 sandwiched between the ring 32a and the holder base top 34a. The coffee holder 30 includes a vertical centerline CL.

The housing 30 is disclosed in FIG. 2 of U.S. patent application Ser. No. 11/777,831 filed Jul. 13, 2007 by the present applicant. The present application is a Continuation In Part (CIP) of the '831 application, which '831 application is incorporated by reference above.

The mesh filter 42 is disclosed in U.S. patent application Ser. No. 12/620,584 filed Nov. 17, 2009 by the present applicant, as a nylon mesh, metal mesh, or any material capable of holding the coffee while allowing a flow of heated water through the coffee. The present application is a Continuation In Part (CIP) of the '584 application, which '584 application is incorporated by reference above. Unlike filter paper, the mesh filter may be cleaned and reused, and may be removable from the housing 30 for cleaning.

A cross-sectional side view of a second coffee holder 50 according to the present invention is shown in FIG. 5 and a cross-sectional side view of the coffee holder 50 in the prior

4

art single serving housing 10 is shown in FIG. 6. The coffee holder 50 includes the lid 32 and a base 52. The passage 40 in the lid 32 is provided for the needle 20. The base 52 includes an annular recessed region 38b. The coffee holder 30 defines an interior region 30a and an exterior region 30b (see FIG. 2). The mesh filter 42 holds the brewing material 16, and retains the brewing material 16 in the interior region 30a of the coffee holder 50 separating the brewing material 16 from the exterior region 30b of the coffee holder 50. The needle 20 reaches through the passage 40 in the lid 32 to inject hot liquid into the brewing material 16 to make a brewed drink. A circular opening 54 in the bottom of the base 52 provides an annular recess 38b providing clearance for the lower needle 22 creating an open ceiling exposing the interior of the coffee holder to the offset bottom needle when the coffee holder resides in the brewing chamber.

The housing 50 is disclosed in FIG. 6 of U.S. patent application Ser. No. 11/777,831 filed Jul. 13, 2007 by the present applicant for use with a coffee pod including filter paper and incorporated by reference above, and the use of the mesh filter 42 is disclosed in the '584 patent incorporated by reference above. A metal or plastic reusable coffee holder is also disclosed in the '831 application.

FIG. 7 shows a side view of a holder 70 having a hinged holder lid 32"

FIG. 8 shows a side view of a threaded holder and threaded holder lid according to the present invention.

While the invention herein disclosed has been described by means of specific embodiments and applications thereof, numerous modifications and variations could be made thereto by those skilled in the art without departing from the scope of the invention set forth in the claims.

I claim:

1. A beverage brewer, comprising:
 - a brewing chamber;
 - a container, disposed within the brewing chamber and adapted to hold brewing material while brewed by a beverage brewer, the container comprising:
 - a receptacle configured to receive and support the brewing material; and
 - a cover;
 - wherein the receptacle includes
 - a base, having an interior surface, an exterior surface, and a passageway in an interior area of the base, providing fluid flow through the interior surface and the exterior surface,
 - at least one sidewall extending upward from the interior surface of the base, and
 - at least one extension that raises the base a predetermined distance above a lower surface of the brewing chamber;
 - wherein the cover is adapted to sealingly engage with a top edge of the at least one sidewall, the cover including an opening, and
 - wherein the container is adapted to accept input fluid through the opening and to provide a corresponding outflow of fluid through the passageway;
 - an inlet port, adapted to provide the input fluid to the container; and
 - a needle-like structure, adapted to receive outflow fluid from the container through the base passageway;
 - wherein the at least one extension forms an annular recessed region below the base that is disposed to receive the needle-like structure and to provide a clearance around the needle-like structure such that the needle-like structure does not puncture the base.

5

2. The beverage brewer of claim 1, wherein the predetermined distance is selected such that a tip of the needle-like structure does not penetrate the exterior surface of the base.

3. The beverage brewer of claim 1, wherein the receptacle and the cover include materials such that the container is reusable.

4. The beverage brewer of claim 1, wherein the passageway has an unobstructed configuration.

5. The brewing material holder of claim 1, wherein the passageway is disposed at a position that is substantially at a center of the base.

6. The brewing material holder of claim 1, wherein the receptacle further includes a stem that extends downward below the exterior surface of the base from around a periphery of the passageway.

7. The beverage brewer of claim 1, wherein the container further comprises a mesh filter that is configured to be disposed within the receptacle and to receive and support the brewing material in the path of the fluid flow.

8. A beverage brewer, comprising:

a brewing chamber;

a container, disposed within the brewing chamber and adapted to hold brewing material while brewed by a beverage brewer, the container comprising:

a receptacle configured to receive the brewing material; and

a cover;

wherein the receptacle includes

a base, having an interior surface and an exterior surface, wherein at least a portion of the base is disposed a predetermined distance above a bottom surface of the brewing chamber, and

at least one sidewall extending upward from the interior surface of the base,

wherein the receptacle has at least one passageway that provides fluid flow from an interior of the receptacle to an exterior of the receptacle;

wherein the cover is adapted to sealingly engage with a top edge of the at least one sidewall, the cover including an opening, and

wherein the container is adapted to accept input fluid through the opening and to provide a corresponding outflow of fluid through the passageway;

an inlet port, adapted to provide the input fluid to the container; and

a needle-like structure, disposed below the base;

wherein the predetermined distance is selected to form an annular recessed region below the base to receive the needle-like structure such that a tip of the needle-like structure does not penetrate the exterior surface of the base.

9. The beverage brewer of claim 8, wherein at least one passageway of the at least one passageway is disposed in the base.

10. The beverage brewer of claim 8, wherein the receptacle also includes at least one extension that raises the at least a portion of the base the predetermined distance above the bottom surface of the brewing chamber.

11. The beverage brewer of claim 8, wherein the receptacle and the cover include materials such that the container is reusable.

12. The beverage brewer of claim 8, wherein at least one passageway of the at least one passageway is unobstructed.

13. The brewing material holder of claim 8, wherein the passageway is disposed at a position that is substantially at a center of the base.

6

14. The brewing material holder of claim 8, wherein the receptacle further includes a stem that extends downward below the exterior surface of the base from around a periphery of the passageway.

15. The beverage brewer of claim 8, wherein the container further comprises a mesh filter that is configured to be disposed within the receptacle and to receive and support the brewing material in the path of the fluid flow.

16. A beverage brewer, comprising:

a brewing chamber;

a container, disposed within the brewing chamber and adapted to hold brewing material while brewed by a beverage brewer, the container comprising:

a receptacle configured to receive the brewing material; and

a cover;

wherein the receptacle includes

a base, having an interior surface, an exterior surface, and a passageway in an interior area of the base, providing fluid flow through the interior surface and the exterior surface, and

at least one sidewall extending upward from the interior surface of the base,

wherein the receptacle is adapted to support the brewing material a predetermined distance above a lower surface of the brewing chamber,

wherein the cover is adapted to sealingly engage with a top edge of the at least one sidewall, the cover including an opening, and

wherein the container is adapted to accept input fluid through the opening and to provide a corresponding outflow of fluid through the passageway;

an inlet port, adapted to provide the input fluid to the container; and

a needle-like structure, disposed below the brewing material;

wherein the predetermined distance is selected to form an annular recessed region below the base such that the needle-like structure does not touch the brewing material when held by the container.

17. The beverage brewer of claim 16, wherein the receptacle also includes at least one extension that raises the base the predetermined distance above the lower surface of the brewing chamber.

18. The beverage brewer of claim 16, wherein the receptacle and the cover include materials such that the container is reusable.

19. The beverage brewer of claim 16, wherein the passageway has an unobstructed configuration.

20. The brewing material holder of claim 16, wherein the passageway is disposed at a position that is substantially at a center of the base.

21. The brewing material holder of claim 16, wherein the receptacle further includes a stem that extends downward below the exterior surface of the base from around a periphery of the passageway.

22. The beverage brewer of claim 16, wherein the container further comprises a mesh filter that is configured to be disposed within the receptacle and to receive and support the brewing material in the path of the fluid flow.

23. A beverage brewer, comprising:

a brewing chamber;

a container, disposed within the brewing chamber and adapted to hold brewing material while brewed by a beverage brewer, the container comprising:

a receptacle configured to receive the brewing material; and

7

a cover;
 wherein the receptacle includes
 a base, having an interior surface, an exterior surface,
 and a passageway in an interior area of the base,
 providing fluid flow through the interior surface
 and the exterior surface, and
 at least one sidewall extending upward from the inte-
 rior surface of the base,
 wherein the cover is adapted to sealingly engage with a
 top edge of the at least one sidewall, the cover includ-
 ing an opening, and
 wherein the container is adapted to accept input fluid
 through the opening and to provide a corresponding
 outflow of fluid through the passageway;
 an inlet port, adapted to provide the input fluid to the
 container; and
 a needle-like structure, adapted to receive outflow fluid
 from the container through the base passageway; and
 wherein the passageway allows the outflow fluid substan-
 tially to avoid the needle-like structure and to flow from
 the container.

24. The beverage brewer of claim 23, wherein the recep-
 tacle also includes at least one extension that raises at least a
 portion of the base a predetermined distance above a lower
 surface of the brewing chamber, wherein the predetermined
 distance is selected to form an annular recessed region below
 the base such that a tip of the needle-like structure does not
 penetrate the exterior surface of the base.

25. The beverage brewer of claim 23, wherein the recep-
 tacle and the cover include materials such that the container is
 reusable.

26. The beverage brewer of claim 23, wherein the passage-
 way has an unobstructed configuration.

27. The brewing material holder of claim 23, wherein the
 passageway is disposed at a position that is substantially at a
 center of the base.

28. The brewing material holder of claim 23, wherein the
 receptacle further includes a stem that extends downward
 below the exterior surface of the base from around a periphery
 of the passageway.

29. The beverage brewer of claim 23, wherein the container
 further comprises a mesh filter that is configured to be dis-
 posed within the receptacle and to receive and support the
 brewing material in the path of the fluid flow.

30. A beverage brewer including a brewing chamber con-
 figured to receive a brewing cartridge, an inlet port adapted to
 provide an input fluid, and a needle-like structure fixed in a
 bottom of the brewing chamber and adapted to puncture a
 shell of the brewing cartridge to carry an outflow of brewed

8

beverage from the brewing cartridge and arranged to avoid
 puncturing filtering material containing brewing material dis-
 posed inside the shell, the improvement comprising:
 a container configured to replace the brewing cartridge, the
 container positionable within the brewing chamber and
 adapted to hold brewing material while brewed by the
 beverage brewer, the container including:
 a receptacle configured to receive and support the brew-
 ing material, and
 a cover;
 wherein the receptacle includes:
 a passageway providing fluid communication
 between an interior of the receptacle and the brew-
 ing chamber,
 a base, having an interior surface and an exterior
 surface and configured to avoid contact with the
 needle-like structure, and
 at least one sidewall extending upward from the inte-
 rior surface of the base and configured to avoid
 contact with the needle-like structure;
 wherein the cover is adapted to sealingly engage with a
 top edge of the at least one sidewall, the cover includ-
 ing an opening, and
 wherein the container is adapted to accept the input fluid
 from the inlet port through the opening and to provide
 a corresponding outflow of fluid through the passage-
 way such that the outflow substantially avoids the
 needle-like structure.

31. The beverage brewer of claim 30, wherein the recep-
 tacle and the cover include materials such that the container is
 reusable.

32. The beverage brewer of claim 30, wherein the recep-
 tacle also includes at least one extension that raises the base a
 predetermined distance above a lower surface of the brewing
 chamber, to form an annular recessed region below the base.

33. The beverage brewer of claim 30, wherein the passage-
 way has an unobstructed configuration.

34. The brewing material holder of claim 30, wherein the
 passageway is disposed at a position that is substantially at a
 center of the base.

35. The brewing material holder of claim 30, wherein the
 receptacle further includes a stem that extends downward
 below the exterior surface of the base from around a periphery
 of the passageway.

36. The beverage brewer of claim 30, wherein the container
 further comprises a mesh filter that is configured to be dis-
 posed within the receptacle and to receive and support the
 brewing material in the path of the fluid flow.

* * * * *